			APS Rec'd POT/PTO 19 App 20						
-	-	ISMITTAL LETTER TO THE UNITED STATES	ATTORNEY'S DOCKET NUMBER 10 12 APK Z UMBC-0012						
		DESIGNED/ELECTED OFFICE (DO/EO/US) NCERNING A FILING UNDER 35 U.S.C. 371							
	CU	NCERNING A FILING UNDER 33 U.S.C. 3/1	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/552,164						
		AL APPLICATION NO. INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED						
_		04/06276 1 March 2004	9 May 2003						
		/ENTION	JE SAME						
		ENSORS, AND METHODS OF CHARACTERIZING ANALYTES USING TH S) FOR DO/EO/US	AE SAIME						
		LOSA, Govind RAO and Xudong GE							
Applic	ant here	with submits to the United States Designated/Elected Office (DO/EO/US) the fo	llowing items and other information:						
1.		This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.							
2.	$\boxtimes$	This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.							
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items							
		(5), (6), (9) and (21) indicated below.							
4.		The US has been elected (Article 31).							
5.		A copy of the International Application as filed (35 U.S.C. 371(c)(2))							
	a.	is attached hereto (required only if not communicated by the International Bureau).							
	b.	has been communicated by the International Bureau.							
	c.	is not required, as the application was filed in the United States Receiving Office (RO/US)							
6.		An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))							
	a.	is attached hereto.							
	b.	has been previously submitted under 35 U.S.C. 154(d)(4).							
7.		Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).							
	a.	are attached hereto (required only if not communicated by the International Bureau).							
	b.	have been communicated by the International Bureau.							
	c.	have not been made; however, the time limit for making such	amendments has NOT expired.						
	d.	have not been made and will not be made.							
8.		An English language translation of the amendments to the claims under Article 19 (35 U.S.C. 371(c)(3)).							
9.		An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
10.		An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35							
	_	U.S.C. 371(c)(5)).							
	11 to 2	O below concern document(s) or information included:	1						
11.		An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.							
12.		An Assignment Document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
13.		A Preliminary Amendment.							
14.		An Application Data Sheet under 37 CFR 1.76.							
15.		A substitute Specification.							
16.		A Power of Attorney and/or change of address letter.							
17.	$\boxtimes$	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.							
18.		A second copy of the published international application under 35 U.S.C. 154(d)(4).							
19.		A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).							

April 12, 2007

20.

 $\boxtimes$ 

Other items or information: Statement Under 37 CFR 1.821

U.S. APPLICATION (If known, see 37 CFR 1.5) 10/552,164				INTERNATIONAL APPLICATION PCT/US04/06276			ATTORNEY'S DOCKET NO.  UMBC-0012			
The fo	The following fees have been submitted:								Calculations	PTO User Only
21. Basic national fee								\$	110 esci omy	
22. Exami									\$	
If International		examii	nation report	prepared by USI	PTO and all	claims s	satisfy provi	sions of	*	
				•••••						
All other situation 23. Search		•••••		• • • • • • • • • • • • • • • • • • • •			\$2	00.00	\$	
Search fee (37 C		)(2)) h	as been paid	on the internatio	nal applicati	on to th	e USPTO as	an	ð	
International Searching Authority										
				B						
All other situations \$500.00  TOTAL OF 21, 22, and 23 =								<u> </u>		
Addition					aman ayan 10	O ab aat	, (ovolvdino		6	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.							\$			
Total Sheets										
- 100 =	/5	0 =					x \$250.00	)		
	Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).							earliest	\$	
CLAIMS			BER FILED	NUMBER	EXTRA	RATE	3			
Total Claims		43 - 43 =		(	0	x \$50.00			\$	
Independent Claims		3 - 3 =			0	x \$200.00			\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360.00								\$		
TOTAL OF ABOVE CALCULATIONS =								\$		
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.									\$	
SUBTOTAL =									\$	
Processing fee of \$130.00 for furnishing the English language translation later than 30 months from the earliest priority date (37 CFR 1.492(f))									,	
TOTAL NATIONAL FEE =									\$	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property										
TOTAL FEES ENCLOSED =								=	\$ -0-	
							Amount to be refunded:	\$		
									charged:	\$
a. A check in the amount of \$ to cover the above fees is enclosed.										
b _	Please charge my Denosit Account No in the amount of \$ to cover the above fees									
ليبيا	A duplicate copy of this sheet is enclosed.									
c. — The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to										
Deposit Account No. 16-0607. A duplicate copy of this sheet is enclosed.										
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information										
should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b) must be filed										
and granted to					95 Has Hut D	een me	i, a petition	to revive 137	CFK 1.13/(a) or	(b) must be med
SEND ALL CORRESPONDENCE TO										
CUSTOMER NO. 34610										
SIĞNATURE										
FLESHNER & KIM, LLP  René A. Vazquez, Esq.  NAME										
P.O. Box 220898 NAME Chantilly, Virginia 22151-0898 38,647										
Chantilly, Virginia 22151-0898							RATION N	IIMBER		April 12 2007



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## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office
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www.uspte.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/552,164

Leah Tolosa

UMBC-0012 INTERNATIONAL APPLICATION NO.

PCT/US04/06276

I.A. FILING DATE

PRIORITY DATE

03/01/2004

05/09/2003

**CONFIRMATION NO. 2038** 371 FORMALITIES LETTER 

\*OC000000022854303\*

**KED & ASSOCIATES, LLP** P.O. Box 221200 Chantilly, VA 20153-1200

Date Mailed: 03/13/2007

## NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 10/11/2005
- Copy of the International Search Report filed on 10/11/2005
- Preliminary Amendments filed on 10/11/2005
- Information Disclosure Statements filed on 10/11/2005
- Biochemical Sequence Diskette filed on 06/26/2006
- Oath or Declaration filed on 10/11/2005
- Biochemical Sequence Listing filed on 06/26/2006
- Request for Immediate Examination filed on 10/11/2005
- U.S. Basic National Fees filed on 10/11/2005
- Priority Documents filed on 10/11/2005

Applicant's response filed 06/26/2006 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 06/01/2006 have not been completed.

- The paper or compact disc copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). Applicant must provide a substitute paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application OR a substitute computer readable form (CRF) copy of the "Sequence Listing". These two items must be the same. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8. 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a



substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(g), 1.825(b), or 1.825(d).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. <a href="https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html">https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html</a>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <a href="http://www.uspto.gov/ebc">http://www.uspto.gov/ebc</a>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

ANITA D JOHNSON

Telephone: (703) 308-9140 EXT 226

## PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY, DOCKET NO.		
10/552,164	PCT/US04/06276	UMBC-0012		

FORM PCT/DO/EO/916 (371 Formalities Notice)